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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/596,141	06/16/2000	Richard M. Lawn	99395-В	1470	
20306	7590 06/09/2004		EXAM	EXAMINER	
MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP			RAO, MANJUNATH N		
300 S. WACK 32ND FLOOR			ART UNIT	PAPER NUMBER	
CHICAGO, I	L 60606		1652		
			DATE MAILED: 06/09/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

6 001 0 001 0	Application No.	Applicant(s)		
Supplemental	09/596,141	LAWN ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Manjunath N. Rao, Ph.D.	1652		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	is (OR REMAINS) CLOSED in ) or other appropriate commure (IGHTS. This application is su	this application. If not includ nication will be mailed in due	led course. <b>THIS</b>	
1. This communication is responsive to <u>inquiry of 6-4-04</u> .				
2. 🔀 The allowed claim(s) is/are <u>1,8,10,12,14,16 and 18-20</u> .				
3. $igotimes$ The drawings filed on <u>30 December 2002</u> are accepted by	the Examiner.			
4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the:  1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner Paper No./Mail Date  Paper No./Mail Date  1. Identifying indicia such as the application number (see 37 CFR ach sheet. Replacement sheet(s) should be labeled as such in the capture of the deposit of the common of the deposit of the common of the deposit of the capture of the deposit of the capture of the deposit of the capture of the deposit of the	e been received. e been received in Application ocuments have been received for this communication to file a MENT of this application.  Initted. Note the attached EXAL res reason(s) why the oath or one of the submitted. Son's Patent Drawing Review Son's Amendment / Comment or in the header according to 37 CFR osit of BIOLOGICAL MATE.	in No in this national stage application this national stage application that reply complying with the result.  MINER'S AMENDMENT or Note that the Office action of the drawings in the front (not the table).  RIAL must be submitted.	quirements NOTICE OF	
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 08), 7. ☑ Examiner's A	Mail Date Amendment/Comment Statement of Reasons for Alle	owance	

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# Supplemental Action

This supplemental action is being mailed to the applicant in order to correct an inadvertent typographical error under the heading "conclusion" in the previous notice of allowability, that was brought to the attention of the Examiner by the applicant on 6-4-04. The error has been corrected in this supplemental action.

Claims 1, 8, 10, 12, 14, 16, 18-20 are currently pending and are present for examination.

Applicants' amendments and arguments filed on 2-21-04, have been fully considered and are deemed to be persuasive to overcome the rejections previously applied. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. Specifically, Examiner has withdrawn all previous rejections in view of cancellation of all rejected claims by the applicants.

#### **Priority**

Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged. However, the provisional application upon which priority is claimed fails to provide adequate support under 35 U.S.C. 112 for SEQ ID NO:3 of this application.

### Drawings

Drawings submitted in this application are accepted by the Examiner for examination purposes only.

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#### **EXAMINER'S AMENDMENT**

Please amend the specification as follows.

Please replace the paragraph on page 89, lines 1-20 with the following amended paragraph.' --Previous genetic linkage analysis mapped the TD gene to the 7-cM region of human chromosome 9q31 (Rust et a1., Nat. Genet., 20, 96-98 (1998)). In addition, in situ hybridization analyses revealed that the ABCI gene was localized to the broader chromosomal interval 9q22 -9q31 (Luciani et al., Genomics, 21, 150-159 (1994)). Using PCR methods with the GeneBridge 4 panel of human/hampster radiation hybrids (Research Genetics, Inc., Huntsville, AL), human ABC1 was determined to be located between the markers W1-14706 and W1-4062, corresponding to the 7-cM region of human chromosome 9q31. DNA from 93 human/hampster hybrid cell lines was amplified by PCR using human ABCl-specific primers LF: CCTCTCATTACACAAAAACCAGAC (SEQ ID NO: 11) and LR: GCTTTCTTTCACTTCTCATCCTG (SEQ ID NO: 12). Each line was scored as positive or negative for the human ABCI amplification product and the mapping of ABCI derived from analysis of this data was accomplished using the Whitehead Institute/MIT Center for Genome Research software, accessed via the internet (http://carbon.wi.mit.edu:8000/cgibin/contig/rhmapper.pl) (http://carbon.wi.mit.edu:8000/cgi-bin/contig/rhmapper.pl). These results were further confirmed by southern blot hybridization to human genomic/yeast artificial chromosome clones (Research Genetics, Inc.) from the equivalent interval. In addition, public database searching (GeneMap '98; National Center for Biotechnology Information) and radiation hybrid mapping eliminated the other significantly underexpressed genes in the microarray data from the location in the reported genetic interval. These complementary data demonstrate that

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the ABC1 gene is located on human chromosome 9q31 and further indicate that the ABC1 gene is associated with Tangier disease.--

Examiner has made the above informal examiner's amendment in order to cancel the embedded hyperlink and/or other form of browser-executable code in the specification. See MPEP § 608.01.

## Allowable Subject Matter

Claims 1, 8, 10, 12, 14, 16, 18-20 are allowed.

The following is an examiner's statement of reasons for allowance: Following a diligent search it was determined that the prior art neither teaches nor suggests an isolated polynucleotide having ABC1 promoter activity comprising SEQ ID NO:3 as claimed in claims 1, 8, 10, 12, 14, 16, 18-20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Manjunath N. Rao, Ph.D. whose telephone number is 571-272-0939. The Examiner can normally be reached on 7.00 a.m. to 3.30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Ponnathapura

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Achutamurthy can be reached on 571-272-0928. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306 for regular communications and for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

PATE

Manjunath N. Rao

June 4, 2004